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1348/110

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application		
of		
	Inventor(s)	
for		
	Title of invention	• .
	OR	
In re application of: Percival		, *
Application No.: N/A	Group Art Unit: N/A	
Filed: filed herewith	Examiner: N/A	
For: Method and System for Coh	herently Caching I/O Devices Across a Netwo	rk '
Commissioner for Patents P.O. Box 1450		
Alexandria, VA 22313-1450		
INFORMATION I	DISCLOSURE STATEMENT	
(When using Express Mail, th	IDER 37 C.F.R. § 1.8(a) and 1.10* he Express Mail label number is mandatory; lail certification is optional.)	
I hereby certify that this correspondence is, on the	ne date shown below, being:	
	MAILING	
[] deposited with the United States Postal Service P.O. Box 1450, Alexandria, VA 22313-1450	ice in an envelope addressed to the Commissioner for F	atents,
37 C.F.R. § 1.8(a)	37 C.F.R. § 1.10*	
[] with sufficient postage as first class mail.	[X] as "Express Mail Post Office to Addressee" Mailing Label No. EV 333083479 US (mandato	orv)
TI	RANSMISSION	- 37
transmitted by facsimile to the Patent and Trac	demark Office.	
Date: October 10, 2003	Signature Signature	
	Robert M. Asher	
·	(type or print name of person certifying)	

(Information Disclosure Statement [6-1]--page 1 of 11)

- NOTE: "An information disclosure statement shall be considered by the Office if filed by the applicant within any one of the following time periods:
 - (1) Within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
 - (2) Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application;
 - (3) Before the mailing date of a first Office action on the merits; or
 - (4) Before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114."

37 C.F.R. § 1.97(b).

NOTE: "Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section." 37 C.FR. § 1.56(a).

"Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) each inventor named in the application;
- (2) each attorney or agent who prepares or prosecutes the application; and
- (3) every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application." 37 C.F.R. § 1.56(c).

NOTE: The "duty as described in § 1.56 will be met so long as the information in question was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98 before issuance of the patent." Notice of January 9, 1992, 1135 O. G. 13 -25 at 17.

WARNING: "No information disclosure statement maybe filed in a provisional application." 37 C.FR. § 1.51(d).

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement: (check sections forming a part of this statement: discard unused sections and number pages consecutively)

	·
9	Preliminary Statements
	FORMS PTO/SB/08A and 08B (formerly FORM PTO-1449)
3. □	Statement as to Information Not Found in Patents or Publications
. 🗑	Identification of Prior Application in Which Listed Information Was Already Cited
	and for Which No Copies Are Submitted or Need Be Submitted
5. 🗆	Cumulative Patents or Publications
S. □	Copies of Listed Information Items Accompanying This Statement
'. □	Concise Explanation of Non-English Language Listed Information Items
	7A. ☐ EPO Search Report
	7B. ☐ English Language Version of EPO Search Report
3. 🗆	Translation(s) of Non-English Language Documents
	Concise Explanation of English Language Listed Information Items (Optional)
△ ♣	Identification of Developed Nation This Information Displacement Obstantiation

10. Identification of Person(s) Making This Information Disclosure Statement

NOTE: "Once the minimum requirements are met the examiner has an obligation to consider the information." Notice of April 20, 1992 (1138 O.G. 37-41, 37).

S cti n 1. Pr liminary Stat m nts

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

In addition to the Form PTO/SB/08A, also enclosed are the following:

Information Disclosure Statement dated April 1, 1998
Declaration of Pamela Cleveland dated March 30, 1997
Declaration of Eric Dickman dated March 30, 1998
Declaration of Eric Dickman dated July 16, 1997
Declaration of Eric Dickman dated January 30, 1996

SECTION 2. FORMS PTO/SB/08A and 08B (formerly Form PTO-1449)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Percival Attorney Docket: 1348/110

Serial No: N/A Art Group Unit: N/A

Date Filed: filed herewith Examiner Name: N/A

Invention: Method and System for Coherently Caching I/O Devices Across a Network

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS' INFORMATION DISCLOSURE STATEMENT

United States Patents

Examiner Initials	Referei Numbe		Issue Date	Inventor Clas	s/Subclass
	AA	3,820,078	June 25, 1974	Curley et al.	395/250
·	AB	4,755,930	Jul. 5, 1988	Wilson, Jr. et al.	395/449
	AC	4,775,955	Oct. 4, 1988	Liu	395/472
· ·	AD	4,849,879	Jul. 18, 1989	Chinnaswamy et al	. 395/60
	AE	5,025,366	Jun. 18, 1991	Baror	395/455
·	AF	5,060,144	Oct. 22, 1991	Sipple et al.	395/726
	AG	5,062,055	Oct, 19, 1991	Chinnaswamy et al	364/551.01
	AH	5,067,071	Nov. 19, 1991	Schanin et al.	395/293
	AI	5,091,846	Feb. 25, 1992	Sachs et al.	395/250
	AJ	5,136,691	Aug. 4, 1992	Baror	395/466
· ·	ΑK	5,185,878	Feb. 9, 1993	Baror et al.	395/450
<u> </u>	AL	5,241,641	Aug. 31, 1993	Iwasa et al.	395/449
· · · ·	AM	5,265,235	Nov. 23, 1993	Sindhu et al.	395/447
·	AN	5,282,272	Jan. 25, 1994	Guy et al.	395/200.0
	AO	5,307,506	Apr. 26, 1994	Colwell et al.	395/800
· <u></u> - · .	AP	5,323,403	Jun. 21, 1994	Elliott	371/37.6
· · ·	AQ	5,335,327	Aug. 2, 1994	Hisano et al.	395/250
·	AR	5,347,648	Sept. 13, 1994	Stamm et al.	395/182.0
	AS	5,353,430	Oct. 4, 1994	Lautzenheiser	395/444
	AT	5,363,490	Nov. 8, 1994	Alferness et al.	395/581
	ΑU	5,390,318	Feb. 13, 1995	Ramakrishnan et al	. 395/485
· 	ΑV	5,426,747	Jun. 20, 1995	Weinreb et al.	395/413
	AW	5,606,681	February – 1997	Smith et al.	395/445
<u> </u>	AX	5,452,447	November – 1995	Nelson et al.	395/440

(Information Disclosure Statement-Section 2. [6-1]-4 page of 11)

	AY	5,566,315	October – 1996	Milillo et al.	395/440
	CZ	5,301,290	Apr. 5, 1994	Tetzlaff et al.	395/425
	DA	5,408,653	Apr. 18, 1995	Josten et al.	395/600

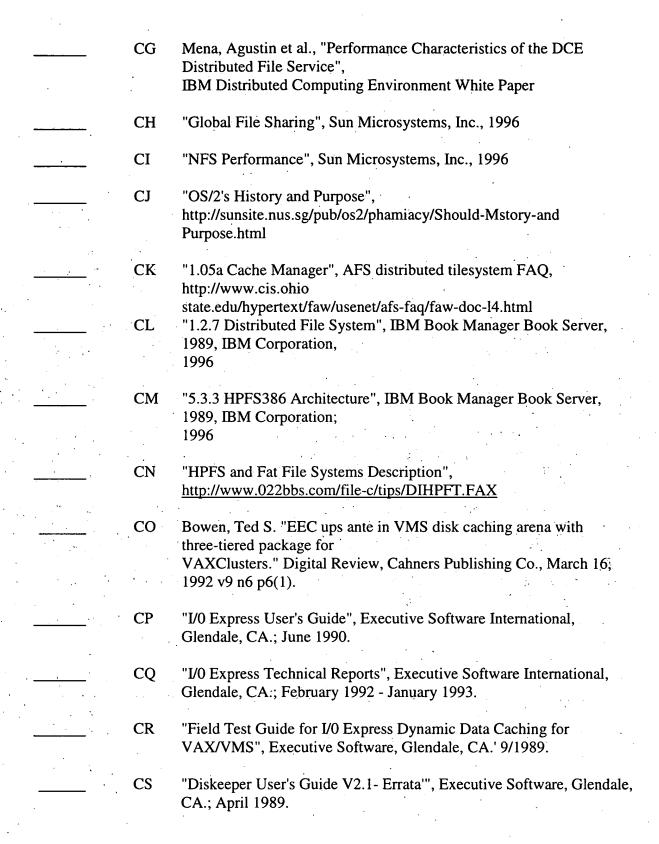
Foreign Patent Documents

Examiner Initials	Referen Number		Issue Date
	AZ	JP64-36351	May 24, 1989
		OTHER RE	FERENCES
Exam. <u>Init.</u>	Ref. No.	<u>Document</u>	
	BA	"The Stanford Dash Mult IEEE Computer Society,	iprocessor", Lenoski et al., Computer, March 1992, pp. 63-79.
	ВВ		cols Keep Data Consistent", Gallant, for Engineers and Engineering Managers,
· <u>·····</u>	BC		t Policies for Network Fileservers", Willick, ting Systems, 1993 Int'1. Conf., pp.2-11.
· · · · · · · · · · · · · · · · · · ·	BD		Storage File System", Wang, Randolph Y. et g Systems, 1993, pp. 71-178.
	BE		rence for Scalable Shared Memory, Manu et al., Parallel Processing, 1993
	BF	Multiprocessor", Nowatz	rocedure Scalable Shared Memory yk, Andreas et al., System Sciences, 1994 Vol, I, 1/4/94, pp. 144-153.
· · · · · · · · · · · · · · · · · · ·	BG	TURBOCACHET""/TUR Description, EEC System February 24, 1992.	RBODISKTM Software Product s, Incorporated, Revised

(Information Disclosure Statement—Section 2. [6-1]--page 5 of 11)

	ВН	TURBOCACHETM/TURBODISKTm Quick Start Guide, EEC Systems Incorporated, February 24, 1992
	BI	TURBOCACHETM Software Product Description, EEC Systems, Incorporated, Revised:February 24, 1992
	ВЈ	TURBOCACHETM/TURBODISKT', Cover Letter and Release Note (*read me first*), EEC Systems, Incorporated, February 24, 1992.
	BK	TURBOCACHETM/TURBODISK" Software Installation and User's Guide, EEC Systems Incorporated, February 24, 1992.
	BL	"SuperCacheTNI - Open VMS I/O Performance Accelerator", Software Product Description SuperCacherM, 1992, 1993 Turbo Systems International s.a.
· · · · · ·	ВМ	"SuperCacheTM V.1.2 User and Installation Guide, a TurboWareTlw Product", V1.2-08.
· · · ·	BN	"VMS File System Internals" Kirby McCoy, Digital Press, Digital Equipment Corporation, 1990.
	ВО	"The VAX/VMS Distributed Lock Manager", Snaman, Jr., William E et al., <i>Digital.Technical Journal</i> , No. 5, Sept. 1987
	BP	"The Design and Implementation of a Distributed File System", Goldstein, Digital <i>Technical</i> Journal, No. 5, Sept. 1987
	BQ	"File System Operation in a VAXcluster Environment", Chapter 8, VMS File SystemInternals, McCoy, Digital Press, 1990
·	BR	Howard, John, "An Overview of the Andrew File System", USENIX Winter Conference, Feb. 9-12, 1988, Dallas, Texas
	BS	Tanenbaum, Andrew S., "Operating Systems: Design and Implementation", Prentice-Hall, Inc., 1987
· 	ВТ	Gray, Cary G. et al., "Leases: An Efficient Fault-Tolerant Mechanism for Distributed File Cache Consistency", 1989 ACM

	BU.	Macklem, Rick, "Lessons Learned Tuning the 4.3BSD Reno Implementation of the NFS Protocol", USENIX, Winter'91, Dallas, Texas
	BV	Kazar, Michael L., "Synchronization and Caching Issues in the Andrew File System", USENIX Winter Conference, Feb. 9-12, 1988, Dallas, Texas
	BW	Sinniah, Raymond R., "An Introduction to the Andrew File System" http://homepages.uel.ac.uk/5291 n/afs/afsdoc.html
	BX	Duncan, Ray, "Design Goals and Implementation of the New High Performance File System", <i>Microsoft Systems Journal</i> , Sept. 1989, Vol. 4, No. 5
	ВҮ	Bell, Les, "OS/2 High Performance File System", http://www.lesbell.com.ati/hpfstest.html
 	BZ	Kumar, Puneet et al., "Log-Based Directory Resolution in the Coda File System", 1993 IEEE 0-8186-3330-1/93
	CA	Mogul, Jeffrey C., "A Recovery Protocol for Spritely NFS", USENIX Association File Systems Workshop, May 21-22, 1992, Ann Arbor, Michigan
 	СВ	Seltzer, Margo et al., "An Implementation of a Log-Structured File System for UNIX", 1993 Winter USENIX, Jan. 25-29, 1993, San Diego, California
	CC	McKusick, Marshall et al., "The Network Filesystem", Chapter 9 of "The Design and Implementation of the 4ABSD Operating System", 1996
	CD	PC Tech, "Understanding the OS/2 CONFIG-SYS File"", PC Magazine
	CE	Jang, Saqib, "NFS and DFS A Functional Comparison", AUSPEX Technical Report 15, April 1997
	CF	Transarc Corporation, "The AFS File System in Distributed



	CT	"Executive Software's Newkeeper", Executive Software, Glendale, CA.; Vol. 4 Issue 4, 1991.				
	CU	"SuperCache-Open VMS I/O Performance Accelerator", TurboSystems International s.a., distributed by EEC Systems, Inc., Sudbury, MA. 1993				
· .	CV	"Executive Software's Newskeeper", Executive Software, Glendale, CA., Vol. 3, Issue 8, May/June 1990.				
	CW	"Executive Software's Newskeeper", Executive Software, Glendale, CA., Vol. 3, Issue 9, July/August 1990.				
· · · · · · · · · · · · · · · · · · ·	CX	"Executive Software's Newskeeper", Executive Software, Glendale, CA., Vol. 4, Issue 1, 1991.				
	CY	"Executive Software's Newskeeper", Executive Software, Glendale, CA., Vol. 4, Issue 3, 1991				
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	· .					
Examiner Sig Date Conside						

NOTE FOR EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance AND not considered. Include copy of this form with next communication to applicant.

S cti n 4. Identificati n f Pri r Applicati n in Which Listed Inf rmati n Was Already Cited

NOTE: "A copy of any patent, publication or other information listed in an information disclosure statement is not required to be provided if it was previously cited by or submitted to the Office in a prior application, provided that the prior application is properly identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120." 37 C.F.R. § 1.98(d).

WARNING: "This exception to the requirement for copies of information does not apply to information which was cited in an international application under the Patent Cooperation Treaty." Notice of April 20, 1992 (1138 O.G. 37-41, 38)

WARNING: "Information which is cited or submitted to the Office in the parent application of a file wrapper continuing application under 37 C.F.R. 1.62 will be part of the file before the examiner and need not be resubmitted in the continuing application. Likewise, the examiner will consider information cited or submitted to the Office in a parent application when examining a continuing application and thus this information need not be resubmitted unless applicant desires the information to be printed on the patent." Notice of April 20, 1992 (1138 O.G. 37-41, 37)

WARNING: While a copy of a non-English language item of information need not be submitted, if it was previously submitted to, or cited by, the Office in a prior application, provided it is properly identified in this statement and this application relies on that earlier filing date under 35 U.S.C. 120, nevertheless, the requirement in § 1.98(a)(3) for a concise explanation of non-English language information would not be satisfied by a statement that a reference was cited in the prosecution of a parent application. The concise explanation must explain the relevance, as presently understood by the person designated in § 1.56(c) most knowledgeable about the content of the information. Notice of January 9, 1992, 1135 O.G. 13-25, at 20.

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application S.N. 10/052,873 filed on January 16, 2002 which claims priority from application S.N. 09/300,633 filed on April 27, 1999 issued as U.S. Patent No. 6,370,615 on April 9, 2002. This application also relies, under 35 U.S.C. § 120 on the earlier filing date of S.N. 08/657,777, filed on May 31, 1996 issued as U.S. Patent No. 5,918,244 and S.N. 08/238,815, filed on May 6, 1994 issued as U.S. Patent No. 5,577,226 and prior application S.N. 10/052,873.

(complete the following, if applicable)

The following references were submitted to, and /or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application:

AA-DA

S cti n 10. Id ntificati n of P rs n() Making This Inf rmati n Disclosure Statement

The person making this	statement is		
	(check each	applicable item)	
(a) □ the invent	or(s) who signs be	low	·
			*
		SIGNATURE OF INVENTOR	· · ·
		SIGNATURE OF INVENTOR	
		(type or print name of inventor who is signif	ng)
	ual associated with lication (37 C.F.R.	the filing and prosecution § 1.56(c))	
		SIGNATURE OF INVENTOR	
	a daga sa kata A	(type or print name of inventor who is signif	ng) 🔆
(c) ■ the practiti	oner who signs bel	ow on the basis of the information:	: :. :
	(check each a	ipplicable item)	• •
	supplied by the inve	entor(s).	• *
		vidual associated with the filing and p	rosecutio
■ i	n the practitioner's	file.)
Reg. No.: 30,445		SIGNATURE OF PRACTITIONER	
Tel. No.: (617) 443-9292		Robert M. Asher (type or print name of person certifying)	···
Customer No.: 002101		Bromberg & Sunstein LLP 125 Summer Street, Boston, MA 02	2110

(Information Disclosure Statement-Section 10. Identification of Person(s) Making This Information Disclosure
Statement [6-1]-page 11 of 11)

01348/00001 273926.1